Name:

at1113exam: Expand, factor, and solve quadratics (v211)

1. Expand the following expression into standard form.

$$(5x - 8)(7x + 4)$$

2. Solve the equation.

$$(6x - 7)(9x - 8) \;=\; 0$$

3. Expand the following expression into standard form.

$$(5x + 6)^2$$

4. Expand the following expression into standard form.

$$(4x - 5)(4x + 5)$$

5. Solve the equation with factoring by grouping.

$$15x^2 + 10x + 12x + 8 \;=\; 0$$

6. Factor the expression.

$$9x^2 - 64$$

7. Solve the equation.

$$10x^2 + 3x - 21 \;=\; 5x^2 + 2x - 3$$

8. Factor the expression.

$$x^2 - 2x - 8$$